

NOTICE OF DRAFTSPERSON'S  
PATENT DRAWING REVIEW

The drawing(s) filed (insert date) 9-11-02 are:

approved by the Draftsperson under 37 CFR 1.84 or 1.152.

objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings: Black ink. Color. Color drawings are not acceptable until petition is granted. Fig(s) _____	8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i): Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____
2. PHOTOGRAPHS. 37 CFR 1.84(b): 1 full-tone set is required. Fig(s) _____ Photographs may not be mounted. 37 CFR 1.84(c): Poor quality (half-tone). Fig(s) _____	9. SCALE. 37 CFR 1.84(k): Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____
3. TYPE OF PAPER. 37 CFR 1.84(c): Paper not flexible, strong, white, and durable. Fig(s) _____ Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) _____ Mylar, velum paper is not acceptable (too thin). Fig(s) _____	10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l): Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) _____
4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes: 21.0 cm by 29.7 cm (DIN size A4) 21.6 cm by 27.9 cm (8 1/2 x 11 inches) All drawing sheets not the same size. Sheet(s) _____ Drawings sheets not an acceptable size. Fig(s) _____	11. SHADING. 37 CFR 1.84(m): Solid black areas pale. Fig(s) _____ Solid black shading not permitted. Fig(s) _____ Shade lines, pale, rough and blurred. Fig(s) _____
5. MARGINS. 37 CFR 1.84(g): Acceptable margins: Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm SIZE: A4 Size Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: 8 1/2 x 11 Margins not acceptable. Fig(s) _____ Top (T) _____ Left (L) _____ Right (R) _____ Bottom (B) _____	12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p): Numbers and reference characters not plain and legible. Fig(s) _____ Figure legends are poor. Fig(s) _____ Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s) _____ English alphabet not used. 37 CFR 1.84(p)(2) Figs _____ Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3) Fig(s) _____
6. VIEWS. 37 CFR 1.84(h): REMINDER: Specification may require revision to correspond to drawing changes. Partial views. 37 CFR 1.84(h)(2) Brackets needed to show figure as one entity. Fig(s) _____ Views not labeled separately or properly. Fig(s) <u>1, 2A, 2B, 1D, 11, 12, 10</u> Enlarged view not labeled separately or properly. Fig(s) _____	13. LEAD LINES. 37 CFR 1.84(q): Lead lines cross each other. Fig(s) _____ Lead lines missing. Fig(s) _____
7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3): Hatching not indicated for sectional portions of an object. Fig(s) _____ Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____	14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(i): Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____
COMMENTS Fig. 1 SHOULD BE LABELED AS FIG. 1A, 1B Fig. 2A " " " " " Fig. 2A-(1), 2A-(2) Fig. 2B " " " " " Fig. 2B-(1), 2B-(2) Fig. 10 " " " " " Fig. 10A, 10B Fig. 11 " " " " " Fig. 11A - 11D Fig. 12 SHOULD BE FIG. 12, 12A-(1), 12A-2 AND SO-ON, UNTIL ALL OF FIG. 12 HAS BEEN LABELED FIG. 16 SHOULD BE FIG. 16A, 16B	15. NUMBERING OF VIEWS. 37 CFR 1.84(u): Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____
	16. CORRECTIONS. 37 CFR 1.84(w): Corrections not made from prior PTO-948 dated _____
	17. DESIGN DRAWINGS. 37 CFR 1.152: Surface shading shown not appropriate. Fig(s) _____ Solid black shading not used for color contrast. Fig(s) _____

REVIEWER J. CHASE DATE 11-22-02 TELEPHONE NO. 703 505 8430

ATTACHMENT TO PAPER NO. \_\_\_\_\_

NOTICE OF DRAFTSPERSON'S  
PATENT DRAWING REVIEWThe drawing(s) filed (insert date) 2-11-03 are:

A.  approved by the Draftsperson under 37 CFR 1.84 or 1.152.  
 B.  objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

<p>1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:  <input type="checkbox"/> Black ink. Color.  <input type="checkbox"/> Color drawings are not acceptable until petition is granted.  <input type="checkbox"/> Figs(s) _____  <input type="checkbox"/> Pencil and non black ink not permitted. Fig(s) _____</p> <p>2. PHOTOGRAPHS. 37 CFR 1.84(b):  <input type="checkbox"/> 1 full-tone set is required. Figs(s) _____  <input type="checkbox"/> Photographs may not be mounted. 37 CFR 1.84(e)  <input type="checkbox"/> Poor quality (half-tone). Figs(s) _____</p> <p>3. TYPE OF PAPER. 37 CFR 1.84(c):  <input type="checkbox"/> Paper not flexible, strong, white, and durable.  <input type="checkbox"/> Figs(s) _____  <input type="checkbox"/> Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Figs(s) _____  <input type="checkbox"/> Mylar, vellum paper is not acceptable (too thin).  <input type="checkbox"/> Figs(s) _____</p> <p>4. SIZE OF PAPER. 37 CFR 1.84(d): Acceptable sizes:  <input type="checkbox"/> 21.0 cm by 29.7 cm (DIN size A4)  <input type="checkbox"/> 21.0 cm by 27.9 cm (8 1/2 x 11 inches)  <input type="checkbox"/> All drawing sheets not the same size.  <input type="checkbox"/> Sheets(s) _____  <input type="checkbox"/> Drawings sheets not an acceptable size. Figs(s) _____</p> <p>5. MARGINS. 37 CFR 1.84(g): Acceptable margins:  <input type="checkbox"/> Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm  <input type="checkbox"/> SIZE: A4 Size  <input type="checkbox"/> Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm  <input type="checkbox"/> SIZE: 8 1/2 x 11  <input type="checkbox"/> Margins not acceptable. Fig(s) _____  <input type="checkbox"/> Top (T) _____ Left (L) _____  <input type="checkbox"/> Right (R) _____ Bottom (B) _____</p> <p>6. VIEWS. 37 CFR 1.84(h):    REMINDER: Specification may require revision to correspond to drawing changes.    Partial views. 37 CFR 1.84(h)(2)  <input type="checkbox"/> Brackets needed to show figure as one entity.  <input type="checkbox"/> Figs(s) _____  <input checked="" type="checkbox"/> Views not labeled separately or properly.  <input type="checkbox"/> Figs(s) <u>16</u>  <input type="checkbox"/> Enlarged view not labeled separately or properly  <input type="checkbox"/> Figs(s) _____</p> <p>7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3):  <input type="checkbox"/> Hatching not indicated for sectional portions of an object.  <input type="checkbox"/> Figs(s) _____  <input type="checkbox"/> Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____</p>		<p>8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i):  <input type="checkbox"/> Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____</p> <p>9. SCALE. 37 CFR 1.84(k):  <input type="checkbox"/> Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.  <input type="checkbox"/> Fig(s) _____</p> <p>10. CHARACTER OF LINES, NUMBERS, &amp; LETTERS. 37 CFR 1.84(l):  <input type="checkbox"/> Lines, numbers &amp; letters not uniformly thick and well defined, clean, durable, and black (poor line quality).  <input type="checkbox"/> Figs(s) _____</p> <p>11. SHADING. 37 CFR 1.84(m):  <input type="checkbox"/> Solid black areas pale. Fig(s) _____  <input type="checkbox"/> Solid black shading not permitted. Fig(s) _____  <input type="checkbox"/> Shade lines, pale, rough and blurred. Fig(s) _____</p> <p>12. NUMBERS, LETTERS, &amp; REFERENCING CHARACTERS. 37 CFR 1.84(p):  <input type="checkbox"/> Numbers and reference characters not plain and legible.  <input type="checkbox"/> Fig(s) _____  <input type="checkbox"/> Figure legends are poor. Fig(s) _____  <input type="checkbox"/> Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)  <input type="checkbox"/> Fig(s) _____  <input type="checkbox"/> English alphabet not used. 37 CFR 1.84(p)(2)  <input type="checkbox"/> Figs _____  <input type="checkbox"/> Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)  <input type="checkbox"/> Figs(s) _____</p> <p>13. LEAD LINES. 37 CFR 1.84(q):  <input type="checkbox"/> Lead lines cross each other. Fig(s) _____  <input type="checkbox"/> Lead lines missing. Fig(s) _____</p> <p>14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.83(i):  <input type="checkbox"/> Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheets(s) _____</p> <p>15. NUMBERING OF VIEWS. 37 CFR 1.84(o):  <input type="checkbox"/> Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____</p> <p>16. CORRECTIONS. 37 CFR 1.84(w):  <input type="checkbox"/> Corrections not made from prior PTO-948 dated _____</p> <p>17. DESIGN DRAWINGS. 37 CFR 1.152:  <input type="checkbox"/> Surface shading shown not appropriate. Fig(s) _____  <input type="checkbox"/> Solid black shading not used for color contrast.  <input type="checkbox"/> Figs(s) _____</p>
COMMENTS <u>FIG. 16 should be labeled Fig. 1B-1, 1B-2</u>		

REVIEWER J. CHASE DATE 3-20-03 TELEPHONE NO. 703-305-6430

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